

Patent Abstracts of Japan

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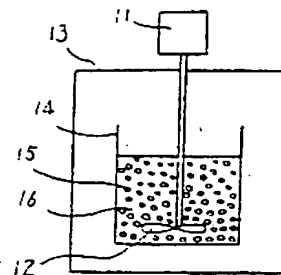
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APPLICANT : HITACHI MEDICAL CORP;

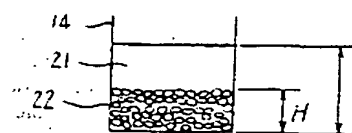
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TITLE : PHOSPHOR MOLDING BODY AND ITS
MANUFACTURE



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ABSTRACT : PURPOSE: To obtain a homogeneous phosphor molding body which is superior in chemical resistance and machine workability by dispersing and settling a powdery phosphor in a liquid of epoxy composition and then heating and setting the epoxy liquid and obtaining the phosphor molding body.

CONSTITUTION: The epoxy liquid consisting of epoxy resin, a curing agent, a curing accelerator, etc., is used as a liquid material 16 which binds powdery phosphor particles. The powdery phosphor 16 is mixed with the liquid in a container 14 and the mixed liquid is stirred in a vacuum thermostatic chamber 13 held at a constant temperature by a stirrer driving system 11 and a stirrer 12 to disperse the powdery phosphor uniformly without containing any air bubble. This mixed liquid is left at the constant temperature and then separated into an upper part 21 which contains almost no phosphor particle and a part 22 where the powdery phosphor particles are deposited. The epoxy liquid in the container 14 is heated and set under necessary conditions and then the phosphor molding body in a necessary shape is obtained from the settled part 22 by machine working.

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